**AP SC 705   Introduction to Digital Electronics and
Signaling Devices   (4)**
3 hours lecture - 3 hours laboratory
Prerequisite: *A minimum grade of 'C' in AP SC 704*
Note: *May be taken 2 times*
Introduction to digital electronic technology and electronic equipment. Instruction includes basic digital systems, binary and decimal numbering systems, decision-making logic circuits, Boolean Algebra, flip-flops, counters, shift registers, encoders, decoders, ROMs, DC to AC converters and organization of these component blocks to accomplish manipulation of data.

AP SC 706   Management/Alarms/Codes/Circuits   (4)
3 hours lecture - 3 hours laboratory
Prerequisite: *A minimum grade of 'C' in AP SC 705*
Note: *May be taken 2 times*
Introduction to management, installation of security and fire alarm systems, the National Electrical Code as it relates to alarm installation and circuits as applied to alarm systems.

AP SC 707   Life Safety and Security System Applications   (4)
3 hours lecture - 3 hours laboratory
Prerequisite: *A minimum grade of 'C' in AP SC 706*
Note: *May be taken 2 times*
Continuation of digital theory studies. Instruction expands coverage
of Life Safety Systems, and introduces the theory and application of Nurse Call Systems and Security Systems with an emphasis on closed circuit television (CCTV) installations.

AP SC 708   Specialized Systems and Supervision Techniques   (4)
3 hours lecture - 3 hours laboratory
Prerequisite: *A minimum grade of 'C' in AP SC 707*
Note: *May be taken 2 times*
Study of specialized building systems including cable television systems (CATV), master antenna systems (MATV), and building automation systems. Training will cover aspects of job administration including personal computer use, job estimating, customer relations, and building system startup procedures.

**AP SC 797   Sound and Communication Systems
                   Installer Topics   (.5 - 4)**
Units awarded in topics courses are dependent upon the number of hours required of the student. Any combination of lecture and/or laboratory may be scheduled by the department. Refer to Class Schedule.
Prerequisite: *Indentured apprentice to the Riverside, San Bernardino, Mono, and Inyo Counties Sound and Communications Joint Apprenticeship Committee or the San Diego Sound & Communications Joint Apprenticeship Committee.*
Note: *May be taken 4 times*
Topics in Sound and Communication Systems Installer. See Class Schedule for specific topic covered. Course title will designate subject covered.

Work Experience (AP WE)

AP WE 710   Sheet Metal Work Experience   (4)
12 hours laboratory
Prerequisite: *Indentured apprentice to a designated Joint Apprenticeship and Training Committee*
Note: *Pass/No Pass grading only; may be taken 4 times*
Supervised on-the-job training in the Sheet Metal Trade.

AP WE 711   Carpentry Work Experience   (4)
12 hours laboratory
Prerequisite: *Indentured apprentice to a designated Joint Apprenticeship and Training Committee*
Note: *May be taken 4 times; Pass/No Pass grading only*
Supervised on-the-job training in the Carpentry trade.

AP WE 712   Drywall/Acoustical Work Experience   (4)
12 hours laboratory
Prerequisite: *Indentured apprentice to a designated Joint Apprenticeship and Training Committee*

Note: *May be taken 4 times; Pass/No Pass grading only*
Supervised on-the-job training in the Interior Systems Trade.

AP WE 713   Electrician Work Experience   (4)
12 hours laboratory
Prerequisite: *Indentured apprentice to a designated Joint Apprenticeship and Training Committee*
Note: *May be taken 4 times; Pass/No Pass grading only*
Supervised on-the-job training in the Electrician trade.

AP WE 714   Plasterer Work Experience   (4)
12 hours laboratory
Prerequisite: *Indentured apprentice to a designated Joint Apprenticeship and Training Committee*
Note: *May be taken 4 times; Pass/No Pass grading only*
Supervised on-the-job training in the Interior Systems Trade

Arabic (ARAB)

Contact the World Languages Department for further information.
(760) 744-1150, ext. 2390
Office: F-5

COURSE OFFERINGS

ARAB 101A   Arabic IA   (3)
3 hours lecture
Note: *Covers the first half of first semester Arabic.*
Transfer acceptability: *CSU; UC*
Arabic 101A and 101B are equivalent to the first semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures. This beginning-level course is for students with no previous coursework in Arabic.

ARAB 101B   Arabic IB   (3)
3 hours lecture
Prerequisite: *A minimum grade of 'C' in ARAB 101A or one year of high school Arabic*
Note: *Covers the second half of first semester Arabic.*
Transfer acceptability: *CSU; UC*
Arabic 101A and 101B are equivalent to the first semester of an elementary level course in Arabic. ARAB 101B is a continuation of ARAB 101A. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

ARAB 102A   Arabic IIA   (3)
3 hours lecture
Prerequisite: *A minimum grade of 'C' in ARAB 101B or two years of high school Arabic*
Note: *Covers the first half of second semester Arabic.*
Transfer acceptability: *CSU; UC*
Arabic 102A and 102B are equivalent to the second semester of an elementary level course in Arabic. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

ARAB 102B   Arabic IIB   (3)
3 hours lecture
Prerequisite: *A minimum grade of 'C' in ARAB 102A or two years of high school Arabic*
Note: *Covers the second half of second semester Arabic.*
Transfer acceptability: *CSU; UC*
Arabic 102A and 102B are equivalent to the second semester of an elementary course in Arabic. Arabic 102B is a continuation of Arabic 102A. This elementary level course is a study of the Arabic language and Arabic-speaking cultures, with emphasis on the development of communicative skills and basic structures.

ARAB 201A Arabic IIIA   **(3)**
3 hours lecture
Prerequisite: A minimum grade of 'C' in ARAB 102B or three years of high school
Arabic
Note: Covers the first half of third semester Arabic.
Transfer acceptability: CSU; UC
Arabic 201A and 201B are equivalent to the third semester of an intermediate
course in Arabic. This intermediate level course is a study of the Arabic language
and Arabic-speaking cultures, focusing on intermediate level structures and read-
ings of culturally relevant authentic materials. Emphasis is on developing oral,
listening, reading and writing skills in order to acquire proficiency in Arabic. Class
is largely conducted in Arabic.

ARAB 201B Arabic IIIB   **(3)**
3 hours lecture
Prerequisite: A minimum grade of 'C' in ARAB 201A
Note: Covers the second half of third semester Arabic.
Transfer acceptability: CSU; UC
Arabic 201A and 201B are equivalent to the third semester of an intermediate
level course in Arabic. ARAB 201B is a continuation of ARAB 201A. This interme-
diate level course is a study of the Arabic language and Arabic-speaking cultures,
focusing on intermediate level structures and readings of culturally relevant au-
thentic materials. Emphasis is on developing oral, listening, reading and writing
skills in order to acquire proficiency in Arabic. Class is largely conducted in Arabic.

Architecture (ARCH)

Contact the Design and Consumer Education Department for further
information.
(760) 744-1150, ext. 2349
Office: P-8A

Associate in Arts Degrees -
AA Degree requirements are listed in Section 6 (green pages).
• Architecture
• Architectural Drafting

Certificates of Achievement -
• Architecture
• Architectural Drafting
• Eco-Building Professional

PROGRAMS OF STUDY

Architecture

This coursework prepares students for transfer into a university architectural
program. Emphasis is on current architectural and construction practices, fun-
damental design skills, sustainable building guidelines, and transfer preparation.

A.A. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
ARCH 105	Basic Architectural Drafting	3
ARCH 120	Architectural History	3
ARCH 121	Multicultural Architectural History	3
ARCH 135	Architectural Materials and Methods of Construction	3
ARCH 144	Architectural Drawing and Color	4
ARCH 145	Architectural Delineation and Pictorial Drawing	4
ARCH 215	Architectural Design Fundamentals I	5
ARCH 216	Architectural Design Fundamentals II	5
Electives (Select 3 units)		
ARCH/DT 125	AutoCAD Introduction to Computer Aided Drafting	3
GCIP 140	Digital Imaging/Photoshop I	4
TOTAL UNITS		**33**

Students should review specific course requirements and transfer agreements
with their architectural instructor and transfer counselor. General education
course requirements such as mathematics, physics, etc. will vary depending upon
the specific university program.

Architectural Drafting

Prepares students for employment as a design/production drafter in the field of
architecture.

A.A. DEGREE MAJOR OR
CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
ARCH 105	Basic Architectural Drafting	3
DT/ARCH 125	AutoCAD Introduction to Computer Aided Drafting	3
ARCH 135	Architectural Materials and Methods of Construction	3
ARCH 144	Architectural Drawing and Color	4
ARCH 145	Architectural Delineation and Pictorial Drawing	4
ARCH 155	Architectural Theory	3
ARCH 160	Environmental Architecture and Design	4
ARCH 200	Advanced Computer Aided Architectural Drafting	4
DT/ARCH 202	Introduction to Revit Architecture	3
Electives (Select 9 units)		
ARCH 120	Architectural History	3
ARCH 121	Multicultural Architectural History	3
CSIT 120	Computer Applications	3
CE 100	Cooperative Education	1 - 4
DT 126	AutoCAD Intermediate Computer Aided Drafting	3
DT 127	AutoCAD Customization	2
MATH 115	Trigonometry	3
TOTAL UNITS		**40**

Eco-Building Professional

This program is designed to provide the knowledge and skills needed to promote
energy and resource efficient building practices through current code changes
and new tax cost payback. Graduates will be prepared for numerous jobs within
the deconstruction and remodel industries and would have skills needed by build-
ers, contractors, architects or designers seeking assessment of current construc-
tion methods for framing, water use and LEED environmental compliance.

CERTIFICATE OF ACHIEVEMENT

Program Requirements		Units
ARCH 135	Architectural Materials and Methods of Construction	3
ARCH 160	Environmental Architecture and Design	4
ARCH 216	Architectural Design Fundamentals II	5
ID 105	Materials and Resources	3
ID 130	Light and Color	3
TOTAL UNITS		**18**

Recommended Electives: GEOG 120, MATH 60

COURSE OFFERINGS

ARCH 105   Basic Architectural Drafting   **(3)**
1½ hours lecture - 4½ hours laboratory
Transfer acceptability: CSU
An introduction to architectural drafting including symbols, lettering, construc-
tion principles, details, and codes as related to the development of working draw-
ings for simple residential design.

ARCH 106   Intermediate Architectural Drafting   **(3)**
1½ hours lecture - 4½ hours laboratory
Prerequisite: A minimum grade of 'C' in ARCH 105
Transfer acceptability: CSU
A continued study in residential design including study in details, materials,
elevations, specifications, electrical, and plumbing.